

0280

OIPE

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/756,247

DATE: 01/25/2001
TIME: 10:36:26

Input Set : A:\es.txt
Output Set: N:\CRF3\01252001\I756247.raw

3 <110> APPLICANT: Godbole, Shubhada D
 4 Boyle, Bryan J
 5 Mize, Nancy K
 6 Deng, Cenhuia
 7 Goodrich, Ryle
 8 Arterburn, Matthew C
 9 Zhou, Ping
 10 Tang, Y. Tom
 11 Liu, Chenghua
 12 Yeung, George
 13 Drmanac, Radoje T
 15 <120> TITLE OF INVENTION: METHODS AND MATERIALS RELATING TO ALPHA-2-MACROGLOBULIN-LIKE POLYPEPTIDES
 16 AND POLYNUCLEOTIDES
 18 <130> FILE REFERENCE: HYS-31CIP
 C--> 20 <140> CURRENT APPLICATION NUMBER: US/09/756,247
 21 <141> CURRENT FILING DATE: 2001-01-08
 23 <150> PRIOR APPLICATION NUMBER: 09/649,167
 24 <151> PRIOR FILING DATE: 2000-08-23
 26 <150> PRIOR APPLICATION NUMBER: 09/540,217
 27 <151> PRIOR FILING DATE: 2000-03-31
 29 <150> PRIOR APPLICATION NUMBER: 09/684,711
 30 <151> PRIOR FILING DATE: 2000-10-06
 32 <150> PRIOR APPLICATION NUMBER: 09/560,875
 33 <151> PRIOR FILING DATE: 2000-04-27
 35 <150> PRIOR APPLICATION NUMBER: 09/196,914
 36 <151> PRIOR FILING DATE: 2000-02-03
 38 <160> NUMBER OF SEQ ID NOS: 41
 40 <170> SOFTWARE: PatentIn version 3.0
 42 <210> SEQ ID NO: 1
 43 <211> LENGTH: 386
 44 <212> TYPE: DNA
 45 <213> ORGANISM: Homo sapiens
 47 <400> SEQUENCE: 1
 48 tggataqcaa cttegtctca qggaaatgaca agcactccat gggggaaacta caggatccaa 60
 50 atagcaacag gattgcacag ggcttggaaatgt ggtaccttag caaggcatgg tataacctgtc 120
 52 cttccaaatcg gcaccaggagg caatgttggg cactacatgt tgccatggc tgaggcaag 180
 54 acctttggta ctttcgttgtt ggaggaaatat gtgtgtccga agtttaaggaa ggatttcgtc 240
 56 cacaatccgg gggtcggggag taggaattat tttttgtttt gaggagaaca aaaagggtct 300
 58 aattcaqagg qggaaacggca cctttgtaca gactgacaaa cctctctaca ccccaaggca 360
 60 gcaagtgat ttcgttgcattt tccatca 386
 63 <210> SEQ ID NO: 2
 64 <211> LENGTH: 1359
 65 <212> TYPE: DNA
 66 <213> ORGANISM: Homo sapiens
 68 <400> SEQUENCE: 2
 69 tggacatc ggcacgagct agcaacttct ggactgaaga agaggcaat acattggatc 60
 71 tcccttctt taccacctcc tgcgtgtggc acagaagaag tgccacaat ccgggtgtcg 120

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/756,247

DATE: 01/25/2001
TIME: 10:36:26

Input Set : A:\es.txt
Output Set: N:\CRF3\01252001\I756247.raw

73 ggagltgtga aataacatca gctttgagga gaagaaaaag gttcttaattc agaggcaggq	180
75 gaacggcacc tttgtacaga ctgacaaaac tctctacacc ccaggcagc aagtgtattt	240
77 ccgcattgtc accatggata gcaacctcg tccagtgaat gacaagtact ccattgtgga	300
79 actacaggat ccaaataqca acaggattgc acagtggctg gaagtggta cttgaaqcaagg	360
81 cattgttagac ctgtccttcc aactggcacc agaggcaatg ctgggcacctt acactgtggc	420
83 agtqgctgag ggcaagactt ttgttactt cagtylggag gaataalgtc tgccgaaqgt	480
85 taaqgtggaa qtggtggaaac ccaaggatq atcaacggtt ttttagttaaa	540
87 aattttgtgt aqgtacaccc atggaaagcc catgttaggg gcagtgcagg tttctgtgtg	600
89 tcagaaggc aataacttac ttggatcggag aggtggaaac gggaaaccgc ttcttgacc	660
91 aatgcggaa cctctctggc cagactgaca aaacaggatq ttcttcggaca cttgtggaca	720
93 tggccaccc tggacccattt qgatatgcgt acagccatca aatcaatattt gtggcatac	780
95 ttgtggaga aqgnacactt gtggaggcata atggccatca gaatatctac atttctccac	840
97 aaatgggattt aatgtacactt ttggagacac cagaatattt taccatccaa atttccct	900
99 tcagtgggaa agataaggaa ttggggccaa atqatgaccc tttctcaag aaccatctaa	960
101 ttgttctgg tattttatggc acaaattggaa ctttcaacca gaccctgggtt actgataaca	1020
103 atggcctaaqc tcccttacc ttgtqaaqaaa tccccqgtgg aaaaqggacaaq aacgttctct	1080
105 ggaggggaaag ttttcaatgg qaaactatcc tttataatcc qyaacaaqaaq qccaccqta	1140
107 ctaccaaaaaa ggcctaaaccc ggcctgcga acccttttac aagaacaaac cggaaacttt	1200
109 cctttggcat tccccccqct taaaacggccc ctgtttatgtt gggccggccc aqgaagtgt	1260
111 qgtggattt ttacatttcgaa cccggccat gcaagccccct qacccaagag atcaaccc	1320
113 ttctactattt ttaaataggg aaaggaaagt ttgtgtatg	1359
116 <210> SEQ ID NO: 3	
117 <211> LENGTH: 4527	
118 <212> TYPE: DNA	
119 <213> ORGANISM: Homo sapiens	
121 <220> FEATURE:	
122 <221> NAME/KEY: CDS	
123 <222> LOCATION: (1)..(4527)	
125 <400> SEQUENCE: 3	
126 atg tgg gct cag ctc ctt cta gga atg ttg gcc cta tca cca gcc att	48
127 Met Trp Ala Gln Leu Leu Leu Gly Met Leu Ala Leu Ser Pro Ala Ile	
128 1 5 10 15	
130 gca gaa gaa ctt cca aac tac ctg gtg aca tta cca gcc cggtt aat	96
131 Ala Glu Glu Leu Pro Asn Tyr Leu Val Thr Leu Pro Ala Arg Leu Asn	
132 20 25 30	
134 ttc ccc tcc gtt cag aag qtt tttt gac ctg agc cct ggg tac aqt	144
135 Phe Pro Ser Val Gln Lys Val Cys Leu Asp Leu Ser Pro Gly Tyr Ser	
136 35 40 45	
138 gat gtt aaa ttc acg gtt act ctg gag acc aag gac aag acc cag aag	192
139 Asp Val Lys Phe Thr Val Thr Leu Glu Thr Lys Asp Lys Thr Gln Lys	
140 50 55 60	
142 ttg cta gaa tac tct gga ctg aag aag agg cac tta cat tttt atc tcc	240
143 Leu Leu Glu Tyr Ser Gly Leu Lys Lys Arg His Leu His Cys Ile Ser	
144 65 70 75 80	
146 ttt ctt gta cca cct cct gct ggt ggc aca gaa gaa gtg gcc aca atc	288
147 Phe Leu Val Pro Pro Pro Ala Gly Gly Thr Glu Glu Val Ala Thr Ile	
148 85 90 95	
150 cgg gtg tcg gga gtt gga aat aac atc agc ttt gag gag aag aaa aag	336
151 Arg Val Ser Gly Val Gly Asn Asn Ile Ser Phe Glu Glu Lys Lys	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/756,247

DATE: 01/25/2001
TIME: 10:36:26

Input Set : A:\es.txt
Output Set: N:\CRF3\01252001\I756247.raw

152	100	105	110	
154	gtt cta att cag agg cag ggg aac ggc acc ttt gta cag act gac aaa			384
155	Val Leu Ile Gin Arg Gln Gly Asn Gly Thr Phe Val Gln Thr Asp Lys			
156	115	120	125	
158	cct ctc tac acc cca ggg cag caa gtq tat ttc cgc att gtc acc atg			432
159	Pro Leu Tyr Thr Pro Gly Gln Gin Val Tyr Phe Arg Ile Val Thr Met			
160	130	135	140	
162	gat agc aac ttc gtt cca gtg aat gac aag tac tcc atq gtg gaa cta			480
163	Asp Ser Asn Phe Val Pro Val Asn Asp Lys Tyr Ser Met Val Glu Leu			
164	145	150	155	160
166	cag gat cca aat agc aac agg att gca cag tgg ctg gaa gtg gta cct			528
167	Gln Asp Pro Asn Ser Asn Arg Ile Ala Gln Trp Ieu Glu Val Val Pro			
168	165	170	175	
170	gag caa ggc att gta gac ctg tcc caa ctg gca cca gag gca atg			576
171	Glu Gln Gly Ile Val Asp Leu Ser Phe Gln Leu Ala Pro Glu Ala Met			
172	180	185	190	
174	ctg ggc acc tac act gtq gca gtg gct gag ggc aag acc ttt ggt act			624
175	Leu Gly Thr Tyr Thr Val Ala Val Ala Glu Gly Lys Thr Phe Gly Thr			
176	195	200	205	
178	ttc aqt qtq gag qaa tat gtg ctg ccg aag ttt aag qtq qaa gtq gtg			672
179	Phe Ser Val Glu Glu Tyr Val Leu Pro Lys Phe Lys Val Glu Val Val			
180	210	215	220	
182	gaa ccc aag gag tta tca acg gtg cag gaa tct ttc tta gta aaa att			720
183	Glu Pro Lys Glu Leu Ser Thr Val Gin Glu Ser Phe Leu Val Lys Ile			
184	225	230	235	240
186	tgt tgt agg tac acc tat gga aag ccc atg cta ggg gca gtg cag gta			768
187	Cys Cys Arg Tyr Thr Tyr Gly Lys Pro Met Leu Gly Ala Val Gln Val			
188	245	250	255	
190	tct gtg tgt cag aag gca aat act tac tgg tat cga gag gtg gaa cgg			816
191	Ser Val Cys Gln Lys Ala Asn Thr Tyr Trp Tyr Arg Glu Val Glu Arg			
192	260	265	270	
194	qaa caq ctt cct gac aaa tgc agg aac ctc tct qqa cag act qac aaa			864
195	Glu Gln Ieu Pro Asp Lys Cys Arg Asn Leu Ser Gly Gln Thr Asp Lys			
196	275	280	285	
198	aca gga tgt ttc tca gca cct gtg gac atg gcc acc ttt gac ctc att			912
199	Thr Gly Cys Phe Ser Ala Pro Val Asp Met Ala Thr Phe Asp Leu Ile			
200	290	295	300	
202	gga tat gcg tac agc cat caa atc aat att gtg gct act gtt gtg gag			960
203	Gly Tyr Ala Tyr Ser His Gln Ile Asn Ile Val Ala Thr Val Val Glu			
204	305	310	315	320
206	gaa ggg aca ggt gtg gag gcc aat gcc act cag aat atc tac att tct			1008
207	Glu Gly Thr Gly Val Glu Ala Asn Ala Thr Gln Asn Ile Tyr Ile Ser			
208	325	330	335	
210	cca caa atg gga tca atg acc ttt gaa gac acc agc aat ttt tac cat			1056
211	Pro Gln Met Gly Ser Met Thr Phe Glu Asp Thr Ser Asn Phe Tyr His			
212	340	345	350	
214	cca aat ttc ccc ttc agt ggg aag ata aga gtt agg ggc cat gat gac			1104
215	Pro Asn Phe Pro Phe Ser Gly Lys Ile Arg Val Arg Gly His Asp Asp			
216	355	360	365	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/756,247

DATE: 01/25/2001
TIME: 10:36:26

Input Set : A:\es.txt
Output Set: N:\CRF3\01252001\I756247.raw

218 tcc ttc ctc aag aac cat cta gtg ttt ctg gtg att tat ggc aca aat	1152
219 Ser Phe Leu Lys Asn His Leu Val Phe Leu Val Ile Tyr Gly Thr Asn	
220 370 375 380	
222 gga acc ttc aac cag acc ctg gtt act gat aac aat ggc cta gct ccc	1200
223 Gly Thr Phe Asn Gln Thr Leu Val Thr Asp Asn Asn Gly Leu Ala Pro	
224 385 390 395 400	
226 ttt acc ttg gaa aca tcc gtt tgg aat egg aca gac gtt tct ctg gag	1248
227 Phe Thr Leu Glu Thr Ser Gly Trp Asn Gly Thr Asp Val Ser Leu Glu	
228 405 410 415	
230 gga aag ttt caa atg gaa gac tta gta tat aat ccg gaa caa gtg cca	1296
231 Gly Lys Phe Gln Met Glu Asp Leu Val Tyr Asn Pro Glu Gln Val Pro	
232 420 425 430	
234 cgt tac tac cca aat gcc tac ctg cac ctg cga ccc ttc tac agc aca	1344
235 Arg Tyr Tyr Gln Asn Ala Tyr Leu His Leu Arg Pro Phe Tyr Ser Thr	
236 435 440 445	
238 acc cgc agc ttc ctt ggc atc cac cgg cta aac ggc ccc ttg aaa ttt	1392
239 Thr Arg Ser Phe Leu Gly Ile His Arg Leu Asn Gly Pro Leu Lys Cys	
240 450 455 460	
242 ggc caa ccc cag gaa qtg ctg qtg gat tat tac atc gac ccc ggc gat	1440
243 Gly Gln Pro Gln Glu Val Leu Val Asp Tyr Tyr Ile Asp Pro Ala Asp	
244 465 470 475 480	
246 gca agc cct gac caa gag atc agc ttc tcc tac tat tta ata ggg aaa	1488
247 Ala Ser Pro Asp Gln Glu Ile Ser Phe Ser Tyr Tyr Leu Ile Gly Lys	
248 485 490 495	
250 gga aqt ttg gtg atg gag ggg caq aaa cac ctg aac tct aag aag aaa	1536
251 Gly Ser Leu Val Met Glu Gly Gln Lys His Leu Asn Ser Lys Lys Lys	
252 500 505 510	
254 gga ctg aaa gcc tcc ttc tct ctc tca ctg acc ttc act tcg aga ctg	1584
255 Gly Leu Lys Ala Ser Phe Ser Leu Ser Leu Thr Phe Thr Ser Arg Leu	
256 515 520 525	
258 gcc cct gat cct tcc ctg gtg atc tat gcc att ttt ccc aqt gga ggt	1632
259 Ala Pro Asp Pro Ser Leu Val Ile Tyr Ala Ile Phe Pro Ser Gly Gly	
260 530 535 540	
262 gtt gta gct gac aaa att cag ttc tca gtc ggg atg tgc ttt gac aat	1680
263 Val Val Ala Asp Lys Ile Gln Phe Ser Val Gly Met Cys Phe Asp Asn	
264 545 550 555 560	
266 cag gtt tcc ctt ggc ttc tcc ccc tcc cag cag ctt cca gga gca gaa	1728
267 Gln Val Ser Leu Gly Phe Ser Pro Ser Gln Gln Leu Pro Gly Ala Glu	
268 565 570 575	
270 gtg gag ctg cag ctg cag gca gct ccc gga tcc ctg ttt ggc ctc cgg	1776
271 Val Glu Leu Gln Leu Gln Ala Ala Pro Gly Ser Leu Cys Ala Leu Arg	
272 580 585 590	
274 gcg gtg gat gag agt gtc tta ctg ctt agg cca gac aqa gag ctg agc	1824
275 Ala Val Asp Glu Ser Val Leu Leu Arg Pro Asp Arg Glu Leu Ser	
276 595 600 605	
278 aac cgc tct gtc tat ggg atg ttt cca ttc tgg tat ggt cac tac ccc	1872
279 Asn Arg Ser Val Tyr Gly Met Phe Pro Phe Trp Tyr Gly His Tyr Pro	
280 610 615 620	
282 tat caa gtg gct gag tat gat cag ttt cca gtg tct ggc cca tgg gac	1920

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/756,247

DATE: 01/25/2001
TIME: 10:36:26

Input Set : A:\es.txt
Output Set: N:\CRF3\01252001\I756247.raw

283	Tyr	Gln	Val	Ala	Glu	Tyr	Asp	Gln	Cys	Pro	Val	Ser	Gly	Pro	Trp	Asp	
284	625					630		635							640		
286	ttt	cct	cag	ccc	ctc	att	gac	cca	atg	ccc	caa	ggg	cat	tgc	agc	cag	1968
287	Phe	Pro	Gln	Pro	Leu	Ile	Asp	Pro	Met	Pro	Gln	Gly	His	Ser	Ser	Gln	
288						645				650				655			
290	cgt	tcc	att	atc	tgg	agg	ccc	tgc	tct	gaa	ggc	acg	gac	ctt	ttc		2016
291	Arg	Ser	Ile	Ile	Trp	Arg	Pro	Ser	Phe	Ser	Glu	Gly	Thr	Asp	Leu	Phe	
292						660				665			670				
294	agc	ttt	tcc	cgg	gac	gtg	ggc	ctg	aaa	ata	ctg	tcc	aat	gcc	aaa	atc	2064
295	Ser	Phe	Phe	Arg	Asp	Val	Gly	Leu	Lys	Ile	Leu	Ser	Asn	Ala	Lys	Ile	
296						675				680			685				
298	aag	aag	cca	gta	gat	tgc	atq	cac	aga	tct	cca	gaa	tac	aqc	act	qct	2112
299	Lys	Lys	Pro	Val	Asp	Cys	Ser	His	Arg	Ser	Pro	Glu	Tyr	Ser	Thr	Ala	
300						690				695			700				
302	alG	ggt	ggc	ggt	ggt	cat	cca	gag	gct	ttt	gaa	tca	tca	act	cct	tta	2160
303	Met	Gly	Gly	Gly	Gly	His	Pro	Glu	Ala	Phe	Glu	Ser	Ser	Thr	Pro	Leu	
304	705					710				715			720				
306	cat	caa	gca	gag	gat	tct	cag	gtc	cgc	caq	tac	tcc	cca	gag	acc	tgg	2208
307	His	Gln	Ala	Glu	Asp	Ser	Gln	Val	Arg	Gln	Tyr	Phe	Pro	Glu	Thr	Trp	
308						725				730			735				
310	ctc	tgg	gat	ctg	ttt	cct	att	ggt	aac	tgc	ggg	aag	gag	ggc	gtc	cac	2256
311	Leu	Trp	Asp	Leu	Phe	Pro	Ile	Gly	Asn	Ser	Gly	Lys	Glu	Ala	Val	His	
312						740				745			750				
314	gtc	aca	gtt	cct	gac	gcc	atc	acc	gag	tgg	aag	ggc	atg	agt	ttc	tgc	2304
315	Val	Thr	Val	Pro	Asp	Ala	Ile	Thr	Glu	Trp	Lys	Ala	Met	Ser	Phe	Cys	
316						755				760			765				
318	act	tcc	cag	tca	aga	ggc	ttc	ggg	cgt	tcc	ccc	act	gtt	gga	cta	act	2352
319	Thr	Ser	Gln	Ser	Arg	Gly	Phe	Gly	Leu	Ser	Pro	Thr	Val	Gly	Leu	Thr	
320						770				775			780				
322	gct	ttc	aag	ccg	ttc	ttt	gtt	gac	ctg	act	ctc	cct	tac	tca	gtt	gtc	2400
323	Ala	Phe	Lys	Pro	Phe	Phe	Val	Asp	Leu	Thr	Leu	Pro	Tyr	Ser	Val	Val	
324	785					790				795			800				
326	cgt	ggg	gaa	tcc	ttt	cgt	ctt	act	gcc	acc	acc	ttc	aat	tac	cta	aag	2448
327	Arg	Gly	Glu	Ser	Phe	Arg	Leu	Thr	Ala	Thr	Ile	Phe	Asn	Tyr	Leu	Lys	
328						805				810			815				
330	gat	tgc	atc	agg	ttt	cag	act	gac	ctg	gtc	aaa	tgc	cat	gag	tac	cag	2496
331	Asp	Cys	Ile	Arg	Val	Gln	Thr	Asp	Leu	Ala	Lys	Ser	His	Glu	Tyr	Gln	
332						820				825			830				
334	cta	gaa	tca	tgg	gca	gat	tct	cag	acc	tcc	agt	tgt	ctc	tgt	gtc	gtt	2544
335	Leu	Glu	Ser	Trp	Ala	Asp	Ser	Gln	Thr	Ser	Ser	Cys	Leu	Cys	Ala	Asp	
336						835				840			845				
338	gac	gca	aaa	acc	cac	cac	tgg	aac	atc	aca	gtc	aaa	ttg	ggt	cac		2592
339	Asp	Ala	Lys	Thr	His	His	Trp	Asn	Ile	Thr	Ala	Val	Lys	Leu	Gly	His	
340						850				855			860				
342	att	aac	ttt	act	att	atg	aca	aag	att	ctg	gac	agc	aat	gaa	cca	tgt	2640
343	Ile	Asn	Phe	Thr	Ile	Ser	Thr	Lys	Ile	Leu	Asp	Ser	Asn	Glu	Pro	Cys	
344	865					870				875			880				
346	ggg	ggc	cag	aag	ggg	ttt	gtt	ccc	caa	aag	ggc	cga	agt	gac	acg	ctc	2688
347	Gly	Gly	Gln	Lys	Gly	Phe	Val	Pro	Gln	Lys	Gly	Arg	Ser	Asp	Thr	Leu	

FYI:

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/756,247

DATE: 01/25/2001
TIME: 10:36:27

Input Set : A:\es.txt
Output Set: N:\CRF3\01252001\1756247.raw

L:20 M:270 C: Current Application Number differs, Replaced Current Application Number
L:2277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26